

# Joel

25 August 2010





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### **Resources and reserves**

#### GOLD

### **MINERAL RESOURCES**

	MEASURED			INDICATED			INFERRED				TOTAL					
	tonnes		Gold	Gold	tonnes		Gold	Gold	tonnes		Gold	Gold	tonnes		Gold	Gold
		g/t	('000)	('000)		g/t	('000)	('000)		g/t	('000)	('000)		g/t	('000)	('000)
	(Mt)		(kg)	(oz)	(Mt)		(kg)	(oz)	(Mt)		(kg)	(oz)	(Mt)		(kg)	(oz)
Underground																
Joel	5.0	6.85	34	1 096	5.5	7.27	40	1 276	12.5	6.06	76	2 439	23.0	6.52	150	4 811

#### **MODIFYING FACTORS**

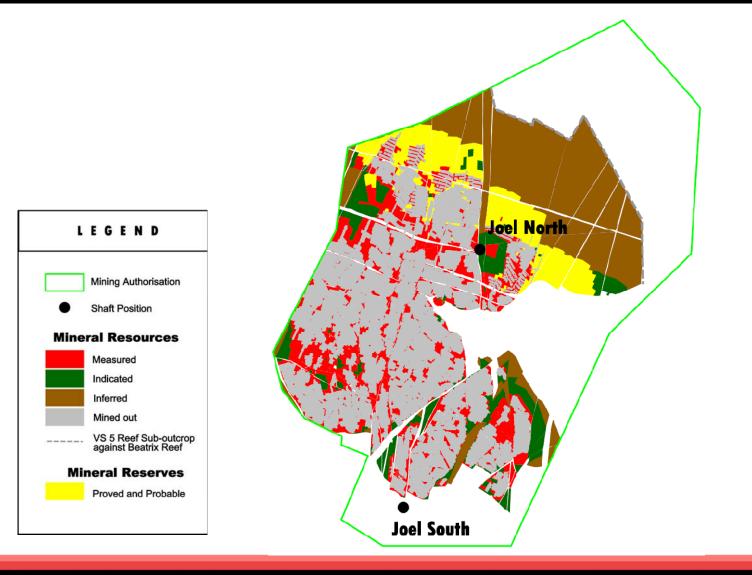
	MCF	SW	MW	PRF (%)
Joel	88	150	176	95

### MINERAL RESERVES

		PRO	VED			PROB	ABLE		TOTAL			
	tonnes		Gold ('000)	Gold ('000)	tonnes	g/t	Gold ('000)	Gold ('000)	tonnes	alt	Gold ('000)	Gold ('000)
	(Mt)	g/t	(kg)	(000) (oz)	(Mt)		(600) (kg)	(000) (oz)	(Mt)	g/t	(600) (kg)	(000) (oz)
Underground												
Joel	1.2	6.25	7	240	1.5	5.61	8	264	2.7	5.90	16	504

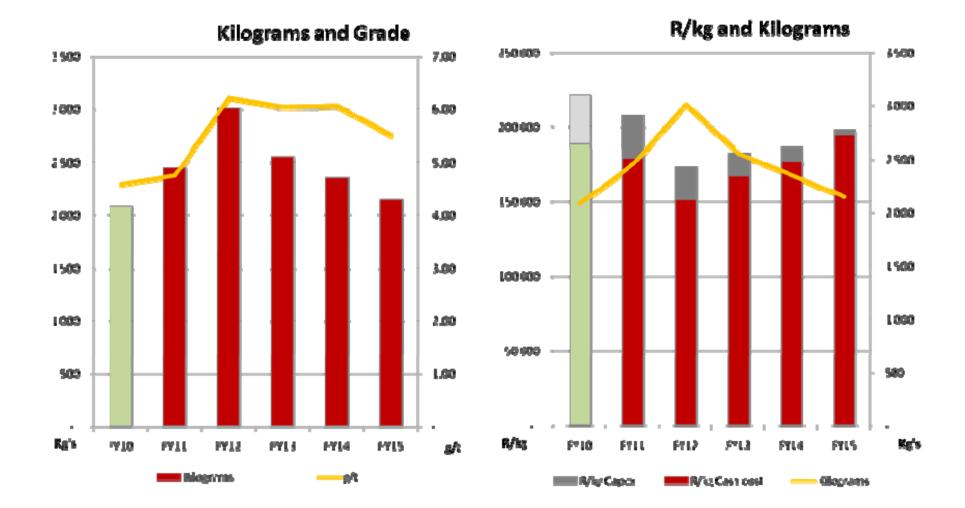








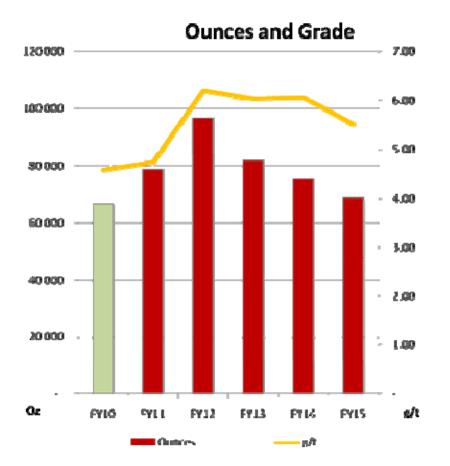


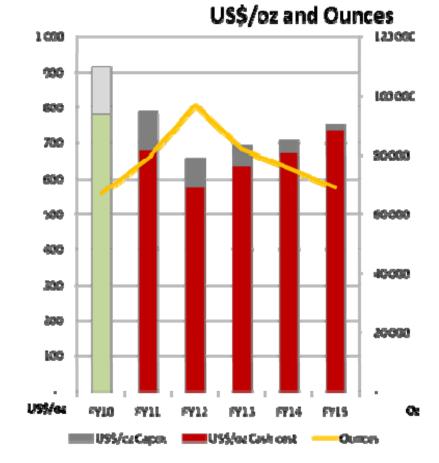


www.harmony.co.za



## Production (Imperial)





Exchange rate: R8.19/US\$1

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### **Key parameters**

- Life of mine (LOM) = 7 years
- Peak production 2011 2016
  - 2 419kg (average/year for total mine)
  - 77 772oz (average/year for total mine)
  - 0.415Mt/year (average/year for total mine) @ 5.82g/t
- 15 700kg Au will be mined over LOM
- Recovery grade (average LOM) = 5.50g/t
- Cash operating cost (real terms)
  - R180 103/kg (average/year during peak production)
  - R1 049/t (average/year during peak production)
- Cost after capital (real terms)
  - R188 010kg (average/year during peak production)
  - R1 095/t (average/year during peak production)
- Productivity (average/year during peak production)
  - 152g/TEC
  - 26t/TEC



## Actions in place to achieve plan

- Safety

- major focus on uncontrolled fall of ground and rail bound equipment
- crew training in business and safety
- mine overseer and shift boss areas of responsibility decreased
- management quality visits and action plans
- implement underground training stope
- Mine Occupational Safety and Health examination procedures and techniques
- Production
  - focus advance per blast
  - planned maintenance program installed reduce breakdowns
  - operability of north shaft
  - feasibility for sub 129 level ground



# **Potential risks**

- Shaft constraints at north shaft
  - time scheduled for barrel and shaft bottom maintenance
  - install permanent spillage arrangement for shaft bottom
- Lift shaft
  - timeous equipping
  - appointed project manager to control project
  - detail planning and management





# **Joel North**

- Successful drilling programme completed
- Pre-feasibility study in progress and due for completion at the end of first quarter of FY11
- Successful result will move project to feasibility study phase



## Joel surface drilling

